Table S5. Types of HTGM gene-category association files used by RedundancyMiner

type	description	default mode	custom mode
.tvt	mapping of all genes to a given category	primary	
.gce	mapping of "changed" genes to a given category	used if .tvt missing (for backward compatibility with older versions of GoMiner)	optional
.CIM		not used	

The computation of similarity between two categories can be based on either (a) all of the genes that map to the categories or (b) the "changed" genes that map to the categories. There is no difference between using .gce and .CIM as the gene-category association file. The "default" mode (please see Table S2) is intended to be HTGM-specific, but the custom mode with .CIM rather than .tvt or .gce will permit the use of any CIM-format file, with one *caveat*: a collapsed category cluster is named after one of the categories in the cluster. The perl modules attempt to select the name of the most generic category. That computation is based upon the category size (*i.e.*, the number of genes), as reflected in the parameter to the argument *gcefile*. That computation is most accurate when that parameter is .tvt.